

What is claimed is:

Sub 17  
1. A local multipoint distribution service system having an antenna for transmitting a signal of reused frequency within a specified range from the antenna, the  
5 antenna having multiple radiating antenna elements, each of the antenna elements being adjusted in phase and in amplitude of radiated signal across the radiating elements to mitigate radiation above the horizon, and each of the antenna elements being adjusted in phase and  
10 in amplitude of radiated signal therefrom to decrease attenuation in radiated power with distance from the antenna.

2. A local multipoint distribution service system as recited in claim 1, and further comprising: each of  
15 the antenna elements being adjusted in phase and amplitude of signal across the antenna elements to mitigate nulls between lobes of combined radiated signals collectively from the antenna elements.

3. A local multipoint distribution service system  
20 as recited in claim 1 and further comprising: each of the antenna elements being adjusted in phase and in amplitude of signal across the antenna elements to reduce excess signal power at near range.

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